

IN THE CLAIMS:

Claims 1-7 (Cancelled)

1 8. (Currently Amended) A method for treatment of  
2 diabetes mellitus consisting of the step of administering a quantity of a  
3 flavonoid selected from the group consisting of luteolin, myricetin,  
4 dihydrokaemferol, apigenin, ~~quercetin~~ and mixtures thereof to result in a  
5 reduction in blood glucose.

1 9. (Original) The method of Claim 8, wherein a mixture  
2 of luteolin, dihydrokaemferol and apigenin is administered.

1 10. (Original) The method of Claim 9, wherein the molar  
2 concentration of luteolin is at least twice that of dihydrokaemferol and  
3 apigenin added together.

Claims 11-17 (Cancelled)

1 18. (New) A method for treatment of diabetes mellitus  
2 consisting of the step of administering a quantity of luteolin to result in a  
3 reduction in blood glucose.

1                    19. (New) The method for treatment of diabetes mellitus  
2 according to Claim 18, wherein the step of administering further consists of  
3 administering a quantity of a flavonoid selected from the group consisting of  
4 myricetin, dihydrokaemferol, apigenin, and mixtures thereof to result in a  
5 reduction in blood glucose.

1                    20. (New) The method for treatment of diabetes mellitus  
2 according to Claim 19, wherein the step of administering further consists of  
3 administering a quantity of quercetin.

1                    21. (New) The method for treatment of diabetes  
2 mellitus according to Claim 19, wherein a mixture of luteolin,  
3 dihydrokaemferol and apigenin is administered.

1                    22. (New) The method for treatment of diabetes mellitus  
2 according to Claim 21, wherein the molar concentration of luteolin is at least  
3 twice that of dihydrokaemferol and apigenin added together.

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